### CENTRAL REGIONAL LABORATORY

Data Checklist

Data Set AIR 2002 0034 CHESHIRE MONITORING STUDY
TSP

- Chain-of-Custody
- Analysis Request Form(s)\*
- ☐ Sample Tags
  - Transmittal Report w/signatures of the following:
    - Analyst (s)
    - Peer Reviewer
    - Environmental Data Coordinator

\* Analysis Request Forms provide the data user a means to connect sample numbers with sampling locations

Prepared by:

Oata Management Coordinator

#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



# REGION 5 CENTRAL REGIONAL LABORATORY

#### 536 SOUTH CLARK STREET

# CHICAGO, ILLINOIS 60605

Date:

JAN 2 4 2002

Subject:

Review of Region 5 Data for **CHESHIRE MONITORING STUDY** 

From:

Edgar Santiago, Chemist

Region 5 Central Regional Laboratory

To:

ttached are the results for:

CHESHIRE MONITORING STUDY

CRL data set number: 20020034

Samples analyzed for: Suspended Particles

Results are reported for sample designations: 2002AH27D01, 2002AH27S01, 2002AH27S02,

and 2002AH27S03.

JAN	2	A	2002

Data Management Coo	ordinator and Date Received
Date Transmitted:	AN /2 4 2092
	PA Project Manager/Officer complete the Customer Satisfaction Survey, RL Sample Coordinator at 3-1226.
Please sign and date th	is form below and return it with any comments to:
E E	Sylvia Griffin Data Management Coordinator Region 5 Central Regional Laboratory ML-10C
	(4) (5)
Received by and Date	
Al	y .

Comments:

# ENVIRONMENTAL PROTECTION AGENCY REGION V

# CENTRAL REGIONAL LABORATORY FINAL RESULT REPORT FOR THE TEAM: <u>ANALYTICAL AND INORGANIC (A&I)</u>

DIVISION/BRANCH: AIR DIVISION SAMPLING DATE: 01/08/2002 LAB ARRIVAL DATE: 01/15/2002 DUE DATE: 02/05/2002

DU NUMBER: 90101A DATA SET NUMBER: 20020034 STUDY: CHESHIRE MONITORING STUDY PRIORITY: 1 LABORATORY: CRL

SAMPLE #	CRL LOG NUMBER	SAMPLE DESCRIPTION	SUSPENDED PARTICLE (g/filter)	* 0 B		U E
1	2002AH27S01	GUIDING HANDS SCHOOL	0.0191			
2	2002AH27S01	GUIDING HANDS SCHOOL	0.0191			
3	2002AH27S02	RVHS	0.0146			
4	2002AH27S03	ADDAVILLE	0.0195		A	
DATE	OF ANALYSIS		01/23-24/2002			10000
A	ANALYST		9.8			

Reviewed by:	FRA	Date: 01/24/2002	

Page 1 of 1

CRL SOP: HK015	Date: 07 January 2000	Revision No: 1
Data review for the Analytical and	Inorganic Group	Page_of _

# ATTACHMENT II

atch Number: 200200384 France Facility: CHESHIRG Normal arameter: SUSPENDED PARTICLES CRL.SOP: AIG 947  Package Overview:	YES	NO
Raw Data Package Complete?	V	*
Results Reported Correctly?		
Special Requests Done?	NIA	
Calculations Checked?	V	
Calibration Not Exceeded?	MA	
Manual Peak Integration performed? Circle one IC or GC and Check	MA	
Field QC Checked?	NA	
Quality Control:		
Holding Times Met?	414	
Preservation Checked?	MA	
Proper Digestion Verified?	MA	
Initial Instrument Performance Checks Verified?	· ·	
Calibration Verification Checked?	NA	
Sample-Specific QC (Internal Standards or Analytical Spikes) Okay?	NA	
Matrix QC Checked?	Ala .	
Digestion Blanks Checked?	_   NA	
Spiked Blank Checked?	NA	
LCS (if applicable) Checked?	Ala	
QCS (if applicable) Checked?	N/A	
Final Check		
Technical Review Done?		
Narrative Complete?	V	

Analyst:	6	8		Peer Review	ver:		72-12	7	
Date:	1	24	2002	Date:	e p	24	200	2	
	-			Comments	Att	ached?	(Y/N)_	$\mathcal{N}$	

Data Set Number:	20020034	Parameter:	Suspended Particles
Facility Name:	CHESHIRE MONITO	RING STUDY	
Study Name:	CHESHIRE MONITO	RING STUDY	A MATRIC CO. C. LONGING CO.
Date of Narrative:	01/23/2002	Analyst:	<u>ES</u>
		Signature:	

# **ANALYSIS CASE NARRATIVE**

Four (4) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on January 15, 2002. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter identification numbers and other pertinent information obtained from the individual filters and packaging envelopes are presented in the table below.

Filters ID	Samples ID	Tag Number
Q6280100	2002AH27D01	5-340131
Q6280099	2002AH27S01	5-340130
Q6280103	2002AH27S02	5-340132
Q6280101	2002AH27S03	5-340133

Filter equilibrations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters began on 01/23/2002 and was completed on 01/24/2002. All exposed filters were in good conditions.

### **QUALITY CONTROL (QC):**

Analysis results were evaluated using the QC requirements of CRL.SOP AIG047. All the required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

#### **SAMPLE RESULTS:**

All the sample results are acceptable for use.

#### **ELECTRONIC DATA:**

No electronic data.

# CHESHIRE AIR MONITORING PROJECT PM10

Parameter: Suspended Particles

Data Set Numbers:

20020033, 20020034

Date of Analysis 01/23-24/2002

Analyst:

ES

# **BALANCE VERIFICATION:**

Sandard Weights	Balanced weight	Differences
Actual (g)	Balanced (g)	(g)
		Limit +/-0.0005 g
0	i)	
1.0000	1.0002	-0.0002
2.0000	2.0001	-0.0001
5.0000	4.9999	0.0001

#### QC-SUMMARY FOR EXPOSED FILTERS

Filter ID	CRL Sample	Analysis	ANALYST	Exposed
Number	I.D Number	Date		weight (g)
Q6280103	2002AH27S02	01/24/02	Analyst 1	4.3848
Q6280103	2002AH27S02	01/24/02	Analyst 2	4.3849
Differences (Limit +/- 5 mg	)			-0.0001
Q6280097	2002AH26D01	01/24/02	Analyst 1	4.4052
Q6280097	2002AH26D01	01/24/02	Analyst 2	4.4055
Differences (Limit +/- 5 mg	()			-0.0003

# CHESHIRE AIR MONITORING PROJECT PM10

Filter ID	CRL Sample	Sampling	Station	Sampler	Pstg	P1/Pa Total	Pre Weight	Exposed	Weight	PM10
Number	I.D Number	Date	Location	SN	Avg	Volume (M	of filters (g)	weight (g)	Gain	(UG/M^3)
Data set N	umber 2002003	3								
Q6280097	2002AH26D01	01/02/02	<b>Guiding Hands School</b>	3013	18.75	0.00	4.3760	4.4052	0.0292	ERR
Q6280032	2002AH26S01	01/02/02	Guiding Hands School		18.80	0.00	4.3853	4.4118	0.0265	ERR
G6280098	2002AH26S02		RVHS	3009	18.25	0.00	4.3514	4.3867	0.0353	ERR
Q6280096	2002AH26S03		Addaville	3011	18.55	0.00	4.3971	4.4245	0.0274	ERR

Filter ID	CRL Sample	Sampling	Station	Sampler	Pstg	P1/Pa	Total	Pre Weight	Exposed	Weight	PM10
Number	I.D Number	Date	Location	SN	Avg	Ì	Volume (M^	of filters (g)	weight (g)	Gain	(UG/M^3)
						L'in a de la				e a	
Data set No	umber 2002003	4									
Q6280100	2002AH27D01	01/08/02	Guiding Hands School	3013	18.45		0.00	4.3655	4.3846	0.0191	ERR
Q6280099	2002AH27S01	01/08/02	Guiding Hands School	3012	18.80		0.00	4.3532	4.3723	0.0191	ERR
G6280103	2002AH27S02	01/08/02	RVHS	3009	18.50		0.00	4.3702	4.3848	0.0146	ERR
Q6280101	2002AH27S03		Addaville	3011	18.55		0.00	4.3694	4.3889	0.0195	ERR

275 1-2	FILTER	TARE	DUP	EXPOSED	EXPOSED	COMMENTS
	I.D.	Wt.	wt.	wt.	Wt. DUP	
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	Q6280112	4.3880	h h h e de esta de en esta esta esta esta esta esta esta esta	4.4100	The second determinant of the second	
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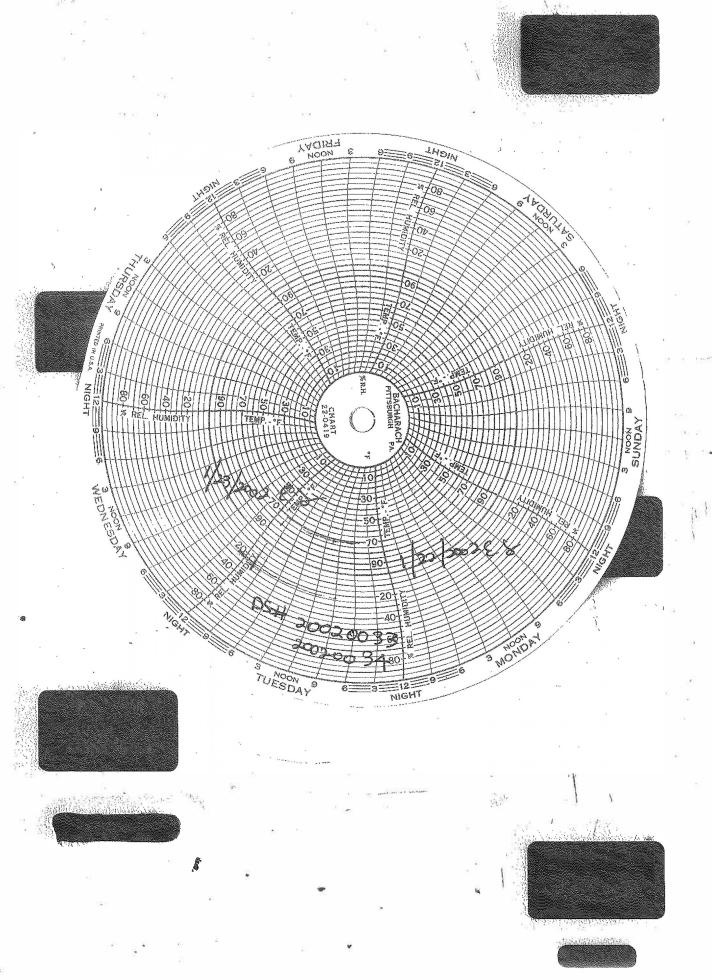
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Balanced weights, balanced (g)

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Parameters PM10

Preservative None Sample ID

US EPA Region 5 Field Sample

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US EPA Region 5 Field Sample

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